

IN THE CLAIMS:

Without prejudice, please cancel claims 14, 15 and 19 and please amend the claims as follows:

1-12. (Canceled)

13. (Currently Amended) A method for producing a semiconductor component in which at least one doped region is introduced into a semiconductor wafer, comprising the steps of:

applying a solid glass layer provided with a dopant on at least one of two sides of the semiconductor wafer;

heating the semiconductor wafer to a high temperature of at least 1200 degrees centigrade while the glass layer is applied so that the dopant from the solid glass layer penetrates into the semiconductor wafer to produce the at least one doped region;

removing the solid glass layer; and

providing the dopant at a dosage of at least $10^{17}/\text{cm}^2$ in the at least one doped region;

wherein the step of applying the solid glass layer is performed in accordance with a chemical vapor deposition at atmospheric pressure.

14. (Canceled)

15. (Canceled)

16. (Previously Presented) The method according to claim 13, wherein:
the step of heating the semiconductor wafer is performed in an oxidizing atmosphere.

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17. (Previously Presented) The method according to claim 13, further comprising the step of:

maintaining the high temperature for about 20 to 30 hours.

18. (Previously Presented) The method according to claim 13, further comprising the step of:

maintaining the high temperature for 21 hours.

19. (Canceled)

20. (Previously Presented) The method according to claim 13, wherein:

the solid glass layer is applied both on the front side of the semiconductor wafer and on the back side of the semiconductor wafer, a doping type of the dopant on the back side being opposite compared to the doping type of the dopant on the front side.

21. (Previously Presented) The method according to claim 13, wherein:

the solid glass layer has a dopant constituent of greater than 2 percentage by weight.

22. (Previously Presented) The method according to claim 13, wherein:

the solid glass layer has a dopant constituent of about 3 to 6 percentage by weight.

23. (Previously Presented) The method according to claim 21, wherein:

the dopant constituent of the solid glass layer on the front side of the semiconductor wafer is different from the dopant constituent of the solid glass layer on the back side of the semiconductor wafer.

24. (Previously Presented) The method according to claim 22, wherein:

the dopant constituent of the solid glass layer on the front side of the semiconductor wafer is different from the dopant constituent of the solid glass layer on the back side of the semiconductor wafer.

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25. (Previously Presented) The method according to claim 13, wherein:
the solid glass layer has a thickness of about 2 micrometers.
26. (Previously Presented) The method according to claim 13, further comprising the steps of:
applying a neutral glass layer on the solid glass layer prior to heating the semiconductor wafer; and
removing the neutral glass layer together with the solid glass layer after heating the semiconductor wafer.
27. (Previously Presented) The method according to claim 26, wherein:
the neutral glass layer has a thickness of about 0.5 micrometers.
28. (Previously Presented) The method according to claim 13, wherein:
the step of removing the solid glass layer is performed in accordance with hydrofluoric acid.
29. (Previously Presented) The method according to claim 13, wherein the high temperature is at least 1200 degrees centigrade.
30. (Previously Presented) The method according to claim 29, wherein the high temperature is between 1200 and 1280 degrees centigrade.